

What is claimed is:

1. A pilot signal reception method comprising the steps of:

5 receiving pilot signals of a pilot channel; and
despread the received pilot signals at
irregular timings.

2. The pilot signal reception method according to claim

10 1, wherein said irregular timings are determined by
irregularly selecting timings using a predetermined
method from timings or periods other than timings
identical to past despreading timings or periods close
to those timings.

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3. A pilot signal reception method comprising the steps of:

receiving pilot signals of a pilot channel;
despread pilot signals;

20 measuring a variation in the reception intensity
of a demodulated signal obtained by despreading; and
adaptively changing despreading timings of said
pilot signals based on the measured variation in said
reception intensity.

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4. The pilot signal reception method according to claim
3, wherein despreading timings are adaptively determined
based on the measured variation in said reception

intensity in such a way as to avoid valleys of the variation in the intensity of the reception signal.

5 . The pilot signal reception method according to claim
5 3 , wherein despreading timings and despreading period
are adaptively changed based on the measured variation
in said reception intensity in such a way as to avoid
valleys of the variation in the intensity of the
reception signal.

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6. A pilot signal reception method comprising the steps of:

receiving a signal sent from the transmitting side including irregularly distributed pilot signals; and

15 determining reception timings of said pilot signals using the same technique as that used to distribute pilot signals on said transmitting side and receiving pilot signals at the determined timings.

20 7. A demodulation method for demodulating a dedicated pilot signal channel using a specific spreading code, and receiving and demodulating a signal which has been spread/modulated using another spreading code and sent for channels other than said dedicated pilot signal

25 channel, comprising the steps of:

dividing the received signal into two signal systems;

despread one signal system using said pilot

signal specific spreading code at irregular timings and demodulating the pilot signals; and

despread the other signal system using another spreading code in parallel with the despreading on said
5 one signal system and demodulating signals other than pilot signals.

8. The demodulation method according to claim 7, wherein
said irregular timing is any one of non-cyclic timing,
10 timing different from past timings, timing adaptively
variable according to reception conditions and totally
random timing determined by a random signal generator
using random numbers, etc.

15 9. A receiver that receives pilot signals comprising:
a despreading circuit that despreads pilot
signals; and
a timing control signal generation circuit that
generates a timing control signal to make despreading
20 timings of said pilot signals irregular.

10. A receiver that receives pilot signals comprising:
a despreading circuit that despreads pilot
signals; and

25 a timing control signal generation circuit that
generates a timing control signal to make despreading
timings of said pilot signals irregular, wherein said
timing control signal generation circuit comprises a

retention circuit that retains past timing signals and said timing control signal generation circuit irregularly determines timings from timings or periods other than timings identical to past despreading timings 5 or periods close to those timings based on past information retained in said retention circuit.

11. A receiver that receives pilot signals comprising:
a despreading circuit that despreads pilot

10 signals; and

a timing control signal generation circuit that generates a timing control signal to make despreading timings of said pilot signals irregular, wherein said timing control signal generation circuit detects the 15 intensity of a demodulated signal output from said despreading circuit, adaptively determines despreading timings in such a way as to avoid valleys of a variation in the intensity of the reception signal based on time variation of the detected reception intensity and 20 generates a timing control signal.

12. A receiver that receives pilot signals comprising:

a despreading circuit that despreads pilot signals; and

25 a timing determination circuit that determines the start timing of despreading based on the intensity and variation of a demodulated signal output from the despreading circuit; and

despread chip number determination circuit that determines the number of chips to be despread based on the intensity and variation of a demodulated signal output from the despreading circuit, wherein operation 5 of said despreading circuit is controlled based on the determined despreading timing and despreading chip number and adaptive and random despreading of pilot signals is performed.

10 13. A communication system, the transmitting side and receiving side of which are random timing generation circuits that generate random timings, wherein timings of transmission and reception of pilot signals are controlled by a timing control signal output from said 15 random timing generation circuit.

14. A CDMA receiver that modulates a dedicated pilot signal channel using a specific spreading code, receives and demodulates a signal, which has been 20 spread/modulated using another spreading code and sent, for channels other than said dedicated pilot signal channel, comprising:

a signal path to divide the received signal into two signal systems;

25 a first despreading circuit that despreads one signal system using said pilot-signal-specific spreading code at irregular timings and demodulates the pilot signals;

a second despreading circuit that despreads the other signal system using another spreading code in parallel with the despreading on said one signal system and demodulates signals other than pilot signals; and

5 timing control circuits that generate a timing
control signal to allow said first despreading circuit
(26) to perform despreading at said irregular timing,
wherein said first despreading circuit despreads pilot
signals at any one of non-cyclic timing, timing different
10 from past timings, timing adaptively variable according
to reception conditions and totally random timing
determined using random numbers, etc. based on said
timing control signal.